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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/627,212	07/25/2003	Eric Roslund	031383-9079-01	4228
23409 7	7590 04/05/2005		EXAMINER	
MICHAEL BEST & FRIEDRICH, LLP			CASAREGOLA, LOUIS J	
MILWAUKEE, WI 53202			ART UNIT	PAPER NUMBER
			3746	

DATE MAILED: 04/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

			11
•	Application No.	Applicant(s)	
0577 4-47 0	10/627,212	ROSLUND ET AL.	
Office Action Summary	Examiner	Art Unit	_
	Louis J. Casaregola	3746	
The MAILING DATE of this communication apperiod for Reply	ppears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1, after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailine earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be ply within the statutory minimum of thirty (30) of will apply and will expire SIX (6) MONTHS frow the cause the application to become ABANDO	timely filed lays will be considered timely. om the mailing date of this communication. NED (35 U.S.C. § 133).	
Status		•	
1) Responsive to communication(s) filed on			
	—. is action is non-final.	,	
3) Since this application is in condition for allows		prosecution as to the merits is	
closed in accordance with the practice under	•		
Disposition of Claims			
 4)⊠ Claim(s) <u>1-28</u> is/are pending in the applicatio 4a) Of the above claim(s) <u>12-28</u> is/are withdra 			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-2,4-10</u> is/are rejected.			
7)⊠ Claim(s) <u>3,11</u> is/are objected to.			
8) Claim(s) are subject to restriction and/	or election requirement.		
Application Papers			
9) The specification is objected to by the Examin	ner.		
10) ☐ The drawing(s) filed on is/are: a) ☐ ac	cepted or b) objected to by the	e Examiner.	
Applicant may not request that any objection to the			
Replacement drawing sheet(s) including the corre	ction is required if the drawing(s) is	objected to. See 37 CFR 1.121(d).	
11) The oath or declaration is objected to by the E	Examiner. Note the attached Office	ce Action or form PTO-152.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:	n priority under 35 U.S.C. § 119	(a)-(d) or (f).	
1. Certified copies of the priority documer	nts have been received.		
2. Certified copies of the priority documer	nts have been received in Applic	ation No	
Copies of the certified copies of the principle.	ority documents have been rece	ived in this National Stage	
application from the International Burea	* **		
* See the attached detailed Office action for a lis	t of the certified copies not recei	ved.	
Attachment(s) 1) Notice of References Cited (PTO-892)	A) [] [[[]]] [] []	(DTO 442)	
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) 🔲 Interview Summa Paper No(s)/Mail	Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	5) ☐ Notice of Informa 6) ☐ Other:	l Patent Application (PTO-152)	

Restriction to one of the following inventions is required under 35 U.S.C. § 121:

I. Claims 1-11 drawn to a motor driven compressor (subcombination) classified

in Class 417, subclass 423.7,

II. Claims 12-24 drawn to a gas turbine engine with a fuel compressor (combina-

tion) classified in Class 60, subclass 234, and

III. Claims 25-28 drawn to a method of supplying fuel to an engine classified in

Class 60, subclass 773.

The inventions of Groups I-III above are distinct for the following reasons:

The apparatus of Group I is distinct from the method of Group III because the

claimed apparatus could be used in a manner materially different than the claimed

method. The apparatus, for example, is not limited to use in an engine fuel supply

system as specified in the method; the apparatus could be used to boost gas pressure

in other types of devices, such as a furnace.

The apparatus of Group II is distinct from the method of Group III because the

method could be practiced with materially different apparatus. The method, for exam-

ple, does not necessarily require a recuperated gas turbine engine as specified in the

apparatus; the method could be performed in conjunction with other types of engines,

such as a non-recuperated gas turbine or an ICE (internal combustion engine).

The apparatus in Groups I and II are also mutually distinct because the combination of Group II does not necessarily require all of the specific details of the subcombination of Group I. The combination, for example, does not necessarily require a rotary compressor – this point is supported by applying claim 12 as an evidence claim (MPEP 806.05(c)(III)). Furthermore, the compressor subcombination has separate utility and could be used in conjunction with gas fueled devices (furnaces, ICE's, etc.) different than the recuperated gas turbine engine in the combination.

Because these inventions are distinct for the reasons given above and require separate classification and/or divergent fields of search, restriction for examination purposes as indicated is proper.

On 3/22/05, applicants attorney, Mr. Thomas Otterlee, made a telephone election of the invention of Group I, claims 1-11. An action on the merits of these claims is set forth below, and non-elected claims 12-28 are withdrawn from further consideration.

Claim Rejections - 35 USC § 102

Claims 1, 2, and 4-9 are rejected under 35 U.S.C. § 102(b) as being anticipated by Masumoto et al.

The present claims read on conventional canned motor pump/compressor units of the type disclosed by Masumoto. Attention is called to Masumoto's Figure 1; note

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that the device shown could be either a centrifugal liquid pump or a centrifugal compressor since both have the same basic configuration. Note also that Masumoto suggests devices of the general type disclosed may operate on gases (col. 1, line 14), and in that case, these devices would be compressors. Masumoto's device can therefore be treated as a compressor for the purposes of this rejection.

With specific reference to the details of Figure 1, see the compressor rotor (unnumbered) located on the right side, the compressor housing (also unnumbered) covering the rotor, the motor 1, and the motor housing defined by the outer wall surrounding the motor. See also the seal assembly comprising the wall structure and O-ring arranged between the compressor and motor housings – this assembly serves to delineate separate and mutually sealed compressor and motor chambers. The compressor chamber further extends to include the space within motor canister 2 such that motor rotor 6 is located in the compressor chamber and separated from and the motor stator as specified in the present claims.

It is additionally noted that the claims describe the recited compressor apparatus as a "fuel booster". This is merely a statement of intended use. If the rotary compressor apparatus recited the present claims is capable of being used in this manner, than the structurally equivalent compressor apparatus disclosed in the prior art can be presumed equally capable.

With regard to claims 2 and 9, it is pointed out that the housing structure covering the front of Masumoto's compressor rotor includes inlet and outlet apertures (claim 2)

and the section extending from the impeller outlet aperture to the flange at the top of the compressor assembly constitutes a discharge housing (claim 9).

With respect to claim 4, it is additionally pointed out that Masumoto's compressor rotor includes a shaft extension defining a drive portion held in a sleeve-like manner by his motor rotor.

Claim Rejections - 35 USC § 103

Claim 10 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Masumoto like claim 1 above and further in view of Yamamoto et al.

Claim 10 recites a variable frequency drive (electric power control) for controlling motor speed, but Masumoto provides no details of his electric power system. Variable frequency drives however have well known utility in the canned motor pump/compressor art, as demonstrated for example by Yamamoto; see element 76, and column 3, lines 3-5. It would have been obvious to use such a variable frequency drive system in conjunction with Masumoto's compressor motor in order to achieve the benefit normally associated with such a system, i.e. the ability to match compressor output with variable gas consumer demand by adjusting speed.

Allowable Subject Matter

Claims 3 and 11 contain allowable subject matter but are objected to as depending from rejected parent claims. If rewritten in independent form, these claims will be allowed.

Additional References

Walker and Inoue (JP 62-181640) are cited as disclosing further pertinent examples of canned motor type pump/compressor devices.

L. J. Casaregola 571-272-4826 (M-F; 7:30-4:00) 703-872-9306 FAX March 24, 2005

LOUIS J. CASAREGOLA PRIMARY EXAMINER

La Lacoregola

If repeated attempts to reach the examiner by telephone are unsuccessful, the art unit supervisor, Cheryl Tyler, can be reached at 571-272-4834

Information regarding the status of this application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR, and status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).